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a memory coupled to the command stream controller and to the write address generator,
the memory to store pixel data in a first order determined by the write address generator;

processing circuitry coupled to the write address generator to receive control information
and data from the command stream controller to generate a reconstructed video frame; and

a read address generator coupled to the processing circuitry and to the memory, the read
address generator to cause the memory to output pixel data in a second order, wherein the second
order comprises a sub-block-by-sub-block row major order.
